Title (en)

Apparatus and method for processing information, recording medium and computer program

Title (de)

Vorrichtung und Verfahren zur Verarbeitung eines Informationsaufzeichnungsmediums und Computerprogramm

Title (fr)

Procédé et appareil de traitement d'informations, support d'enregistrement et programme informatique

Publication

EP 2026255 A3 20100602 (EN)

Application

EP 08252482 A 20080722

Priority

JP 2007211477 A 20070814

Abstract (en)

[origin: EP2026255A2] An information processing apparatus includes a target problem acquisition unit for acquiring a target problem, a generation unit for generating a plurality of solution candidates to the target problem to solve the target problem, and a contribution ratio calculating unit for calculating a contribution ratio of each solution candidate to the target problem if the target problem is solved using all the plurality of solution candidates to the target problem acquired by the target problem acquisition unit. The generation unit generates a solution candidate to the target problem in a next generation in accordance with a genetic algorithm that uses an evaluation value that is calculated using at least the contribution ratio of each solution candidate to the target problem determined by the contribution ratio calculating unit.

IPC 8 full level

G06N 3/12 (2006.01); **G06N 99/00** (2010.01)

CPC (source: EP US)

G06N 3/126 (2013.01 - EP US)

Citation (search report)

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- [I] H. VAFAIE: "Using genetic algorithms for restructuring feature-based representation spaces", 1997, GEORGE MASON UNIVERSITY, XP007912828
- [I] A. ZILS: "Extraction de descripteurs musicaux : une approche évolutionniste", 27 September 2004, UNIVERSITÉ PIERRE ET MARIE CURIE, XP007912802
- [T] Y. KOBAYASHI: "Automatic generation of musical instrument detector by using evolutionary learning method", PROCEEDINGS OF THE 10TH INTERNATIONAL SOCIETY FOR MUSIC INFORMATION RETRIEVAL CONFERENCE (ISMIR'09), 26 October 2009 (2009-10-26), pages 93 - 98, XP007912797

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2026255 A2 20090218; **EP 2026255 A3 20100602**; CN 101369320 A 20090218; CN 101369320 B 20140528; JP 2009048266 A 20090305; JP 4392620 B2 20100106; US 2009048991 A1 20090219; US 2012203722 A1 20120809; US 8170963 B2 20120501

DOCDB simple family (application)

EP 08252482 A 20080722; CN 200810134654 A 20080812; JP 2007211477 A 20070814; US 18644808 A 20080805; US 201213449463 A 20120418